

Brad S Coates

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76
papers

1,245
citations

19
h-index

30
g-index

86
ext. papers

1,559
ext. citations

3.9
avg, IF

4.7
L-index

#	Paper	IF	Citations
76	Comparative performance of single nucleotide polymorphism and microsatellite markers for population genetic analysis. <i>Journal of Heredity</i> , 2009 , 100, 556-64	2.4	99
75	Partial mitochondrial genome sequences of <i>Ostrinia nubilalis</i> and <i>Ostrinia furnicalis</i> . <i>International Journal of Biological Sciences</i> , 2005 , 1, 13-8	11.2	99
74	Genome sequencing of the sweetpotato whitefly <i>Bemisia tabaci</i> MED/Q. <i>GigaScience</i> , 2017 , 6, 1-7	7.6	60
73	Whole genome sequence of the soybean aphid, <i>Aphis glycines</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 123, 102917	4.5	55
72	Linkage of an ABCC transporter to a single QTL that controls <i>Ostrinia nubilalis</i> larval resistance to the <i>Bacillus thuringiensis</i> Cry1Fa toxin. <i>Insect Biochemistry and Molecular Biology</i> , 2015 , 63, 86-96	4.5	36
71	Genomic Basis of Circannual Rhythm in the European Corn Borer Moth. <i>Current Biology</i> , 2019 , 29, 3501-3509.e536	36.9	36
70	Allelic variation of a <i>Beauveria bassiana</i> (Ascomycota: Hypocreales) minisatellite is independent of host range and geographic origin. <i>Genome</i> , 2002 , 45, 125-32	2.4	36
69	A helitron-like transposon superfamily from lepidoptera disrupts (GAAA)(n) microsatellites and is responsible for flanking sequence similarity within a microsatellite family. <i>Journal of Molecular Evolution</i> , 2010 , 70, 275-88	3.1	34
68	Unlinked genetic loci control the reduced transcription of aminopeptidase N 1 and 3 in the European corn borer and determine tolerance to <i>Bacillus thuringiensis</i> Cry1Ab toxin. <i>Insect Biochemistry and Molecular Biology</i> , 2013 , 43, 1152-60	4.5	30
67	Assembly and annotation of full mitochondrial genomes for the corn rootworm species, <i>Diabrotica virgifera virgifera</i> and <i>Diabrotica barberi</i> (Insecta: Coleoptera: Chrysomelidae), using Next Generation Sequence data. <i>Gene</i> , 2014 , 542, 190-7	3.8	30
66	Spatial and temporal genetic analyses show high gene flow among European corn borer (Lepidoptera: Crambidae) populations across the central U.S. corn belt. <i>Environmental Entomology</i> , 2009 , 38, 1312-23	2.1	30
65	Down-regulation of aminopeptidase N and ABC transporter subfamily G transcripts in Cry1Ab and Cry1Ac resistant Asian corn borer, (Lepidoptera: Crambidae). <i>International Journal of Biological Sciences</i> , 2017 , 13, 835-851	11.2	28
64	Repetitive genome elements in a European corn borer, <i>Ostrinia nubilalis</i> , bacterial artificial chromosome library were indicated by bacterial artificial chromosome end sequencing and development of sequence tag site markers: implications for lepidopteran genomic research. <i>Genome</i> , 2009 , 52, 57-67	2.4	28
63	Geographic and voltinism differentiation among North American <i>Ostrinia nubilalis</i> (European corn borer) mitochondrial cytochrome c oxidase haplotypes. <i>Journal of Insect Science</i> , 2004 , 4, 35	2	25
62	Nuclear small subunit rRNA group I intron variation among <i>Beauveria</i> spp provide tools for strain identification and evidence of horizontal transfer. <i>Current Genetics</i> , 2002 , 41, 414-24	2.9	25
61	Male- and Female-Biased Gene Expression of Olfactory-Related Genes in the Antennae of Asian Corn Borer, <i>Ostrinia furnacalis</i> (Guené) (Lepidoptera: Crambidae). <i>PLoS ONE</i> , 2015 , 10, e0128550	3.7	23
60	Transcriptional analysis of susceptible and resistant European corn borer strains and their response to Cry1F protoxin. <i>BMC Genomics</i> , 2015 , 16, 558	4.5	22

59	The invasive MED/Q <i>Bemisia tabaci</i> genome: a tale of gene loss and gene gain. <i>BMC Genomics</i> , 2018 , 19, 68	4.5	21
58	A high-quality genome assembly from a single, field-collected spotted lanternfly (<i>Lycorma delicatula</i>) using the PacBio Sequel II system. <i>GigaScience</i> , 2019 , 8,	7.6	21
57	Changes in Neuronal Signaling and Cell Stress Response Pathways are Associated with a Multigenic Response of <i>Drosophila melanogaster</i> to DDT Selection. <i>Genome Biology and Evolution</i> , 2017 , 9, 3356-3372	3.9	19
56	Binding affinity of five PBPs to <i>Ostrinia</i> sex pheromones. <i>BMC Molecular Biology</i> , 2017 , 18, 4	4.5	19
55	Selective sweep analysis in the genomes of the 91-R and 91-C <i>Drosophila melanogaster</i> strains reveals few of the visual suspects in dichlorodiphenyltrichloroethane (DDT) resistance. <i>PLoS ONE</i> , 2015 , 10, e0123066	3.7	19
54	The application and performance of single nucleotide polymorphism markers for population genetic analyses of lepidoptera. <i>Frontiers in Genetics</i> , 2011 , 2, 38	4.5	19
53	Sequence variation in the cadherin gene of <i>Ostrinia nubilalis</i> : a tool for field monitoring. <i>Insect Biochemistry and Molecular Biology</i> , 2005 , 35, 129-39	4.5	18
52	Genome Sequence of the Wheat Stem Sawfly, <i>Cephus cinctus</i> , Representing an Early-Branching Lineage of the Hymenoptera, Illuminates Evolution of Hymenopteran Chemoreceptors. <i>Genome Biology and Evolution</i> , 2018 , 10, 2997-3011	3.9	18
51	Agricultural applications of insect ecological genomics. <i>Current Opinion in Insect Science</i> , 2016 , 13, 61-69	5.1	17
50	The genetic structure of Asian corn borer, <i>Ostrinia furnacalis</i> , populations in China: haplotype variance in northern populations and potential impact on management of resistance to transgenic maize. <i>Journal of Heredity</i> , 2014 , 105, 642-55	2.4	17
49	A combination of sexual and ecological divergence contributes to rearrangement spread during initial stages of speciation. <i>Molecular Ecology</i> , 2017 , 26, 2331-2347	5.7	16
48	Horizontal transfer of a non-autonomous Helitron among insect and viral genomes. <i>BMC Genomics</i> , 2015 , 16, 137	4.5	16
47	A single major QTL controls expression of larval Cry1F resistance trait in <i>Ostrinia nubilalis</i> (Lepidoptera: Crambidae) and is independent of midgut receptor genes. <i>Genetica</i> , 2011 , 139, 961-72	1.5	16
46	Genetic differentiation among <i>Maruca vitrata</i> F. (Lepidoptera: Crambidae) populations on cultivated cowpea and wild host plants: implications for insect resistance management and biological control strategies. <i>PLoS ONE</i> , 2014 , 9, e92072	3.7	16
45	Impacts of Sub-lethal DDT Exposures on microRNA and Putative Target Transcript Expression in DDT Resistant and Susceptible Strains. <i>Frontiers in Genetics</i> , 2019 , 10, 45	4.5	15
44	Comparative profiling of microRNAs in the winged and wingless English grain aphid, <i>Sitobion avenae</i> (F.) (Homoptera: Aphididae). <i>Scientific Reports</i> , 2016 , 6, 35668	4.9	15
43	Mobilizing the genome of Lepidoptera through novel sequence gains and end creation by non-autonomous Lep1 Helitrons. <i>DNA Research</i> , 2012 , 19, 11-21	4.5	15
42	Frequency of hybridization between <i>Ostrinia nubilalis</i> E- and Z-pheromone races in regions of sympatry within the United States. <i>Ecology and Evolution</i> , 2013 , 3, 2459-70	2.8	14

41	Evaluation of tolerance to <i>Bacillus thuringiensis</i> toxins among laboratory-reared western bean cutworm (Lepidoptera: Noctuidae). <i>Journal of Economic Entomology</i> , 2013 , 106, 2467-72	2.2	13
40	A beta-1,3-galactosyltransferase and brainiac/bre5 homolog expressed in the midgut did not contribute to a Cry1Ab toxin resistance trait in <i>Ostrinia nubilalis</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2007 , 37, 346-55	4.5	13
39	Two sex-chromosome-linked microsatellite loci show geographic variance among North American <i>Ostrinia nubilalis</i> . <i>Journal of Insect Science</i> , 2003 , 3, 29	2	13
38	Differentially expressed microRNAs associated with changes of transcript levels in detoxification pathways and DDT-resistance in the <i>Drosophila melanogaster</i> strain 91-R. <i>PLoS ONE</i> , 2018 , 13, e0196518	3.7	13
37	Comparative CYP-omic analysis between the DDT-susceptible and -resistant <i>Drosophila melanogaster</i> strains 91-C and 91-R. <i>Pest Management Science</i> , 2018 , 74, 2530-2543	4.6	11
36	Genome-wide sequencing and an open reading frame analysis of dichlorodiphenyltrichloroethane (DDT) susceptible (91-C) and resistant (91-R) <i>Drosophila melanogaster</i> laboratory populations. <i>PLoS ONE</i> , 2014 , 9, e98584	3.7	11
35	Distribution of genes and repetitive elements in the <i>Diabrotica virgifera virgifera</i> genome estimated using BAC sequencing. <i>Journal of Biomedicine and Biotechnology</i> , 2012 , 2012, 604076		11
34	Introgression between divergent corn borer species in a region of sympatry: Implications on the evolution and adaptation of pest arthropods. <i>Molecular Ecology</i> , 2017 , 26, 6892-6907	5.7	10
33	A rearrangement of the Z chromosome topology influences the sex-linked gene display in the European corn borer, <i>Ostrinia nubilalis</i> . <i>Molecular Genetics and Genomics</i> , 2011 , 286, 37-56	3.1	10
32	Genetic structure and gene flow among European corn borer populations from the Great Plains to the Appalachians of North America. <i>Agricultural and Forest Entomology</i> , 2011 , 13, 383-393	1.9	9
31	The USDA-ARS Ag100Pest Initiative: High-Quality Genome Assemblies for Agricultural Pest Arthropod Research. <i>Insects</i> , 2021 , 12,	2.8	9
30	Soybean aphid biotype 1 genome: Insights into the invasive biology and adaptive evolution of a major agricultural pest. <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 120, 103334	4.5	8
29	Genomic mechanisms of sympatric ecological and sexual divergence in a model agricultural pest, the European corn borer. <i>Current Opinion in Insect Science</i> , 2018 , 26, 50-56	5.1	8
28	Effects of <i>Wolbachia</i> on mitochondrial DNA variation in populations of <i>Athetis lepigone</i> (Lepidoptera: Noctuidae) in China. <i>Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis</i> , 2017 , 28, 826-834	1.3	8
27	Polymorphic CA/GT and GA/CT microsatellite loci for <i>Ostrinia nubilalis</i> (Lepidoptera: Crambidae). <i>Molecular Ecology Notes</i> , 2005 , 5, 10-12		8
26	<i>Bacillus thuringiensis</i> toxin resistance mechanisms among Lepidoptera: progress on genomic approaches to uncover causal mutations in the European corn borer, <i>Ostrinia nubilalis</i> . <i>Current Opinion in Insect Science</i> , 2016 , 15, 70-7	5.1	7
25	Endogenous viral elements integrated into the genome of the soybean aphid, <i>Aphis glycines</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 123, 103405	4.5	6
24	Influence of host plant, geography and pheromone strain on genomic differentiation in sympatric populations of <i>Ostrinia nubilalis</i> . <i>Molecular Ecology</i> , 2019 , 28, 4439-4452	5.7	6

23	Two differentially expressed ommochrome-binding protein-like genes (obp1 and obp2) in larval fat body of the European corn borer, <i>Ostrinia nubilalis</i> . <i>Journal of Insect Science</i> , 2005 , 5, 19	2	5
22	Temporal analysis of microRNAs associated with wing development in the English grain aphid, <i>Sitobion avenae</i> (F.) (Homoptera: Aphidiae). <i>Insect Biochemistry and Molecular Biology</i> , 2021 , 142, 103579	4.5	5
21	bric 1brac controls sex pheromone choice by male European corn borer moths. <i>Nature Communications</i> , 2021 , 12, 2818	17.4	5
20	Structural and functional insights into the <i>Diabrotica virgifera virgifera</i> ATP-binding cassette transporter gene family. <i>BMC Genomics</i> , 2019 , 20, 899	4.5	5
19	Genome scan detection of selective sweeps among biotypes of the soybean aphid, <i>Aphis glycines</i> , with differing virulence to resistance to <i>A. glycines</i> (Rag) traits in soybean, <i>Glycine max</i> . <i>Insect Biochemistry and Molecular Biology</i> , 2020 , 124, 103364	4.5	4
18	Cytochrome P450s Cyp4p1 and Cyp4p2 associated with the DDT tolerance in the <i>Drosophila melanogaster</i> strain 91-R. <i>Pesticide Biochemistry and Physiology</i> , 2019 , 159, 136-143	4.9	4
17	Post-transcriptional modulation of cytochrome P450s, Cyp6g1 and Cyp6g2, by miR-310s cluster is associated with DDT-resistant <i>Drosophila melanogaster</i> strain 91-R. <i>Scientific Reports</i> , 2020 , 10, 14394	4.9	4
16	Dietary antioxidant vitamin C influences the evolutionary path of insecticide resistance in <i>Drosophila melanogaster</i> . <i>Pesticide Biochemistry and Physiology</i> , 2020 , 168, 104631	4.9	3
15	The mitochondrial genome of the western bean cutworm, (Lepidoptera: Noctuidae). <i>Mitochondrial DNA Part B: Resources</i> , 2016 , 1, 487-488	0.5	3
14	Proliferation and copy number variation of BEL-like long terminal repeat retrotransposons within the <i>Diabrotica virgifera virgifera</i> genome. <i>Gene</i> , 2014 , 534, 362-370	3.8	3
13	The mitochondrial genome of the American lotus borer, <i>Ostrinia penitalis</i> (Lepidoptera: Crambidae). <i>Mitochondrial DNA</i> , 2016 , 27, 1938-9		3
12	Characterization of 12 Novel Microsatellite Markers of <i>Sogatella furcifera</i> (Hemiptera: Delphacidae) Identified From Next-Generation Sequence Data. <i>Journal of Insect Science</i> , 2015 , 15,	2	2
11	Differentiation of European Corn Borer (Lepidoptera: Crambidae) and American Lotus Borer (Lepidoptera: Crambidae), <i>Ostrinia penitalis</i> , from North American Field Collections. <i>Journal of Economic Entomology</i> , 2019 , 112, 2007-2011	2.2	2
10	Comparison of the mitochondrial genomes of the Old and New World strains of the legume pod borer, <i>Maruca vitrata</i> (Lepidoptera: Crambidae). <i>International Journal of Tropical Insect Science</i> , 2017 , 37, 125-136	1	2
9	The complete mitochondrial genome of <i>F.</i> (Coreinea, Coreidae, Heteroptera), a pest of fresh cowpea pods. <i>Mitochondrial DNA Part B: Resources</i> , 2017 , 2, 421-423	0.5	2
8	Estimation of long terminal repeat element content in the <i>Helicoverpa zea</i> genome from high-throughput sequencing of bacterial artificial chromosome pools. <i>Genome</i> , 2017 , 60, 310-324	2.4	2
7	Nudivirus Sequences Identified from the Southern and Western Corn Rootworms (Coleoptera: Chrysomelidae). <i>Viruses</i> , 2021 , 13,	6.2	2
6	Variation in Mitochondria-Derived Transcript Levels Associated With DDT Resistance in the 91-R Strain of <i>Drosophila melanogaster</i> (Diptera: Drosophilidae). <i>Journal of Insect Science</i> , 2018 , 18,	2	2

5	Evidence of enhanced reproductive performance and lack of fitness costs among soybean aphid, <i>Aphis glycines</i> , with varying levels of pyrethroid resistance.. <i>Pest Management Science</i> , 2022 ,	4.6	1
4	Geographic Distribution of <i>Bacillus thuringiensis</i> Cry1F Toxin Resistance in Western Bean Cutworm (Lepidoptera: Noctuidae) Populations in the United States. <i>Journal of Economic Entomology</i> , 2020 , 113, 2465-2472	2.2	1
3	Influence of voltine ecotype and geographic distance on genetic and haplotype variation in the Asian corn borer. <i>Ecology and Evolution</i> , 2021 , 11, 10244-10257	2.8	0
2	Up-regulation of apoptotic- and cell survival-related gene pathways following exposures of western corn rootworm to <i>B. thuringiensis</i> crystalline pesticidal proteins in transgenic maize roots. <i>BMC Genomics</i> , 2021 , 22, 639	4.5	0
1	Evaluation of Eight Maize Germplasms Developed in Ecuador for Resistance to Leaf-Feeding Fall Armyworm1. <i>Southwestern Entomologist</i> , 2020 , 45, 75	0.3	